

1L-22-10

STATE OF ILLINOIS  
ENVIRONMENTAL PROTECTION AGENCY

INTER - OFFICE CORRESPONDENCE

EPA Region 5 Records Ctr.



311023

DATE: May 14, 1975

MEMO TO: File

FROM: John R. Leemon *JRL*

SUBJECT: U.S. INDUSTRIAL CHEMICAL COMPANY-Deep Waste Injection Well and Testing

The following is a summary of notes on the disposal well inspection and testing at U.S. Industrial Chemical Company.

April 17, 1975 Testing Co. - AMF Tubescope  
Test - Vertilog

Description - Electro-magnetic casing inspection to determine thickness of casing.

Results - Possible hole in casing at 4980 feet  
48% loss of casing at 4926 feet (loss on I.D.)  
other minor losses on exterior of casing

April 18, 1975 Test performed by men working on the rig under the direction of the consultant.

Test - Pressure test of casing

Description - Tried to set packer at 4975 but would not hold. Packer was finally set at 4955. Pressure was brought up to 60 psig and locked in. Some minor bleed off occurred over next 45 minutes due to leak at water connection. Pressure was then brought up to 106 psig and locked in. Slight pressure loss to 95 psig occurred over next 30 minutes.

Conclusion - Casing held pressure; therefore, no holes or leaks. Minor pressure losses were attributed to water connection leaks at wellhead.

April 21, 1975 Testing Co. Bird Well

Test #1 - Caliper log (5000 up to 4000)

Description - Caliper fingers pick up deviations or roughness in casing diameter.

Field Results - No casing below 4980. Diameter of hole 16 inches (largest diameter calipers will measure)  
4970 to 4980 casing partially gone  
Between 4932 & 4938, caliper picked up slight irregularity - probably where packer was set.  
No other noticeable irregularities up to 4000

Test #2 - Cement Bonding log (4960 to surface)

Description - Sonic probe

Field Results - Static water level at approximately 172 feet  
(This was with a small stream of water running

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EVERY INTER-OFFICE LETTER SHOULD HAVE ONLY ONE SUBJECT.

ALL LETTERS TO BE SIGNED . . . NO SALUTATION OR COMPLIMENTARY CLOSING NECESSARY.

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U.S. INDUSTRIAL CHEMICAL COMPANY

into the well.)

The cement bond in the lower portion of the well (below 4900) appeared to be in good shape.

At several locations in the upper portion of the well the cement bond appeared to be poor.

Test #3 - Porosity Log (4950 to 3300)

Description - Gamma - Neutrol

Results - This log generally agreed with the Cement Bonding log.

Test #4 - Caliper log (4980 up to surface)

Description - same as test #1

Results - same as test #1 up to 4000 feet. No other noticeable irregularities above 4000 feet.

The above is reported for your information and file record.

JRL:ch

FOR EPA USE: Log #

Received

Permit Number

Date

File Subject

## SECTION IV - Septic Tank and Seepage Field Application for Operating Permit

1. Name of Facility \_\_\_\_\_
2. Owner's Name and Address \_\_\_\_\_  

Name

Street
City
State
Zip Code
3. County \_\_\_\_\_
4. Construction Permit Issued for this Facility \_\_\_\_\_
5. List Previous Operation Permits Issued for this Facility after July 1, 1972 \_\_\_\_\_  

\_\_\_\_\_

\_\_\_\_\_
6. Date that operation began \_\_\_\_\_
7. Average daily flow \_\_\_\_\_ Gallons/Day
8. Period of time used for determining #7 \_\_\_\_\_ Year \_\_\_\_\_ Months
9. Permitted Average Daily flow specified in Construction Permit \_\_\_\_\_ GPD

## Certificate by Owner

I hereby certify that the information submitted above is true and that the operation of my facility is in compliance with all Standard and Special Conditions listed on the Construction Permit issued for this facility. I further agree that the application shall not constitute a permit until signed by the Manager of the Permit Section, Division of Water Pollution Control.

Date \_\_\_\_\_ Signature of Owner \_\_\_\_\_

## Approval by the Illinois Environmental Protection Agency

Permit Number \_\_\_\_\_  
 Date \_\_\_\_\_  
 This Permit Expires \_\_\_\_\_

\_\_\_\_\_  
 Manager  
 Permit Section  
 Division of Water Pollution Control

SECTION V - Signature by Engineer

I hereby certify to the best of my knowledge that the information contained in this application is true and correct.

Date June 10 1973 Signature [Signature] (Seal)

Certificate by Applicant

I hereby certify to the best of my knowledge that the information submitted is true and correct and the facility for which this permit is applied is being operated in compliance with all Standard and Special Conditions listed on the Construction Permit issued for this facility. I further agree that this Application for Permit shall not constitute a Permit until signed by the Manager of the Permit Section, Division of Water Pollution Control.

Date 6/26/73 Signature of Applicant Douglas J. Allen

Title Plant Manager

Approval by Illinois Environmental Protection Agency

Permit Number \_\_\_\_\_

Date \_\_\_\_\_

This Permit Expires \_\_\_\_\_

\_\_\_\_\_  
Manager  
Permit Section  
Division of Water Pollution Control